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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/700,316	11/14/2000	Lars-Olof Ohberg	1878/00037	4171
75	590 06/07/2002			
EDWARD A. PENNINGTON SWIDLER BERLIN SHEREFF FRIEDMAN, LLP 3000 K STREET SUITE 300 WASHINGTON, DC 20007			EXAMINER	
			SAADAT, CAMERON	
			ART UNIT	PAPER NUMBER
			3713	
			DATE MAILED: 06/07/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Comments		09/700,316	OHBERG ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Cameron Saadat	3713			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
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-	is action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠	a)⊠ All b)☐ Some * c)☐ None of:					
1.	1. Certified copies of the priority documents have been received.					
2.	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice o 2) Notice o 3) Informat	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948) ion Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u> .		(PTO-413) Paper No(s) atent Application (PTO-152)			
U.S. Patent and Trade PTO-326 (Rev. 0		on Summary	Part of Paper No. 6			

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DETAILED ACTION

Specification

1. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

2. It appears that the instant application is a direct translation of the claimed priority Swedish document. A substitute specification in proper idiomatic English and in compliance with 37 CFR 1.52(a) and (b) is required. The substitute specification filed must be accompanied by a statement that it contains no new matter. In addition, the title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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- 5. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Monk et al. (U.S. Patent No. 5,414,347) in view of Jarrell et al. (U.S. Patent No. 4,215,347).
- Referring to claim 1. Monk et al. discloses a method of simulating an actual missile (column 7, lines 66-68 and column 8, lines 1-2) during the testing of an aircraft system comprising a weapon system (column 1, lines 10-13). Monk et al. further teaches a weapon system comprising control unit 16 for simulating signals that control a missile (column 10, lines 30-34 and lines 63-66). Monk et al. does not specifically teach a target seeker; does not explicitly teach an actual value signal, and a trouble signal (as per claim 1); does not teach a continuous measurement of the error/trouble signal and sampled values in amplitude and phase that are used to determine the command signal (as per claims 2-4); does not teach an interface that inverts the actual value signal (as per claim 5); does not teach an error/trouble signal generated in a summing unit by summing the signal from the weapon system with the inverted actual value signal (as per claim 6). However, Jarrell et al. teaches a target seeker that is commanded to adopt a predetermined position (column 4, lines 52-65) by a command signal (as per claim 1). Jarrell et al. further teaches an error/trouble signal is measured by the target seeker to generate the actual value of the target seeker so that the weapon system can calculate a new error /trouble signal (See figure 1). Furthermore, Jarrell et al. teaches that the error/trouble signal is measured continuously at an interface 10 and that the sampled values for error in amplitude and phase angle are used to determine the command signal (as per claims 2-4), (See Figure 1 and column 4, lines 58-65). Jarrell et al. also discloses an interface 10 that inverts an actual value signal (as per claim 5), (see Figure 1, ref.10). In addition, Jarrell et al. discloses an error/trouble

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signal that is generated in a summing unit 8 by summing the inverted actual value signal with the signal of the weapon system (as per claim 6), (see Figure 1, ref. 8). It would have been obvious for one of ordinary skill in the art at the time the invention was made to utilize the missile-to-weapon system signal communication taught by Jarrell et al. with the missile simulator taught by Monk et al. to obtain continuous measurement of the command signal in the aircraft system, resulting in a more accurate missile simulation.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - Lowenson et al. (U.S. Patent No. 4,935,881) Method and apparatus for testing missile systems.
 - Eldridge (U.S. Patent No. 5,228,854) Combat training system and method.
 - Monk et al. (U.S. Patent No. 5,591,031) Missile simulator apparatus.
 - Monk et al (U.S. Patent No. 5,614,896) Method and system for aircraft weapon station testing.
 - Aspelin et al (U.S. Patent No. 5,034,686) Weapon interface system evaluation apparatus and method.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cameron Saadat whose telephone number is 703-305-5490. The examiner can normally be reached on M-F 8:00 4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin-Wallace can be reached on 703-308-4119. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

CS May 20, 2002

oe H. Cheng Frimary Examiner